

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-24 (canceled)

25 (new): An isolated polynucleotide comprising:

- (a) a nucleotide sequence encoding a polypeptide having AMP deaminase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 85% sequence identity based on the Clustal V alignment method, or
- (b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

26 (new): The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 90% sequence identity based on the Clustal alignment method.

27 (new): The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 95% sequence identity based on the Clustal alignment method.

28 (new): The polynucleotide of Claim 25, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.

29 (new): The polynucleotide of Claim 1, wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:1.

30 (new): A vector comprising the polynucleotide of Claim 25.

31 (new): A virus comprising the isolated polynucleotide of Claim 25.

32 (new): A recombinant DNA construct comprising the polynucleotide of Claim 1 operably linked to at least one regulatory sequence.

33 (new): A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 25.

34 (new): A cell comprising the recombinant DNA construct of Claim 32.

35 (new): A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 25 and regenerating a plant from the transformed plant cell.

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36 (new): A plant comprising the recombinant DNA construct of Claim 32.

37 (new): A seed comprising the recombinant DNA construct of Claim 32.